UIDAI Data Hackathon 2026

Complete Project Ideas for Students (HTML, CSS, JavaScript, React)

This document contains a curated list of complete, practical, and hackathon-ready project ideas suitable for student teams with intermediate knowledge of React and strong fundamentals in HTML, CSS, and JavaScript. Each idea is designed to be achievable within a short hackathon timeline and aligned with UIDAI's focus on data-driven insights, governance, usability, and citizen-centric design.

1. Aadhaar Enrollment & Update Insights Dashboard

Problem Statement: UIDAI manages massive Aadhaar enrollment and update data, but understanding long-term trends and patterns is challenging without a unified visual system.

Proposed Solution: Build a React-based interactive dashboard that visualizes enrollment and update trends across years, states, demographics, and regions.

Key Features:

- Year-wise and state-wise trend charts
- Dynamic filters (state, year, gender, age group)
- Summary cards with key metrics
- Insights panel explaining trends

Technology Stack: React, JavaScript, Chart.js/Recharts, CSS

Value to UIDAI: Enables quick policy-level insights, monitoring adoption saturation, and identifying high-activity regions.

2. State-wise Aadhaar Performance Comparator

Problem Statement: Comparing Aadhaar performance across states is time-consuming and data-heavy.

Proposed Solution: A side-by-side comparison tool allowing users to compare two states across multiple Aadhaar metrics.

Key Features:

- State A vs State B charts
- Growth percentage indicators
- Highlight best-performing state
- Narrative comparison summary

Technology Stack: React, JavaScript, Data visualization libraries

Value to UIDAI: Helps identify successful regions and replicate best practices.

3. Aadhaar Update Heatmap & Hotspot Analyzer

Problem Statement: High Aadhaar update requests in some regions may indicate deeper operational or demographic issues.

Proposed Solution: A heatmap-based visualization highlighting regions with high update activity.

Key Features:

- Color-coded regional heatmap
- Time-based comparison
- Hotspot tagging
- Insight explanations

Technology Stack: React, JS logic, CSS, map/heatmap library

Value to UIDAI: Helps optimize service centers and investigate data-quality issues.

4. Anomaly Detection & Trend Alert Dashboard

Problem Statement: Sudden drops or spikes in Aadhaar activity often go unnoticed.

Proposed Solution: A logic-based dashboard that flags abnormal patterns using rule-based JavaScript analytics.

Key Features:

- Spike/drop detection
- Highlighted alert cards
- Explanatory notes

Technology Stack: React, JavaScript (no ML)

Value to UIDAI: Early warning system for operational irregularities.

5. Aadhaar Data Explorer for Non-Technical Users

Problem Statement: Raw datasets are difficult for non-technical stakeholders to explore.

Proposed Solution: A simplified data exploration tool with search, filters, and guided views.

Key Features:

- Search & filter UI
- Pre-built insights
- Export summaries

Technology Stack: React, JS, CSS

Value to UIDAI: Democratizes access to Aadhaar data insights.

6. Aadhaar Data Storytelling & Awareness Portal

Problem Statement: Public understanding of Aadhaar growth and impact is limited.

Proposed Solution: A scroll-based storytelling website explaining Aadhaar adoption through visuals.

Key Features:

- Scroll animations

- Timeline charts
- Plain-language insights

Technology Stack: HTML, CSS, React

Value to UIDAI: Improves transparency and public communication.

7. Accessibility-First Aadhaar Analytics Platform

Problem Statement: Many government dashboards ignore accessibility needs.

Proposed Solution: An analytics dashboard built with accessibility as the primary focus.

Key Features:

- High-contrast mode
- Keyboard navigation
- Screen-reader friendly UI

Technology Stack: React, Accessible CSS, ARIA labels

Value to UIDAI: Ensures inclusive digital governance.

8. UX Redesign of Aadhaar Service Portal (Concept)

Problem Statement: Existing service portals can be complex for first-time users.

Proposed Solution: A UI/UX redesign prototype focusing on clarity and ease of use.

Key Features:

- Simplified navigation
- Service cards
- Mobile-first design

Technology Stack: React, CSS, UI design principles

Value to UIDAI: Improves citizen experience and reduces errors.